

## **Abstract**

A smog filtering system designed for a city that will generate electric power.

A solar chimney assembly including a chimney (3) is build using a mountain (9) as support. The chimney (3) receives air from a solar heat collector (1) and a turbine (2) is driven by the air. The chimney (3) will be as high as the mountain (approximately 1,000 meters high) and will go above the ***inversion layer*** or ***thermic ceiling*** (10). At the top of the chimney, a fine mist of electrically charged water (5), taken from a reservoir (4) is sprayed across the top of the tower, attracting pollution in the air like sulfur dioxide, soot and other particles. The water will be collected in a second reservoir (6) and will be used to send it down the mountain through a pipe (7) to generate electric power with a turbine (8).